



## Side Event SE-36

### Towards resilient and sustainable urban water management for fast-growing megacities

**Date and Time:** Thursday, 22 March 2018, 17:00-18:00

**Venue:** Room 3, The Ulysses Guimarães Convention Center

**Organizer:** United Nations University Institute for the Advanced Study of Sustainability

#### Session Goal

- This event is aiming at discussing effects of anthropogenic impacts, such as climate change, urbanization, and population growth, on urban water environment in the future; and key challenges in achieving resilient and sustainable urban water management in Asian megacities.
- Policy recommendations based on scientific simulations on urban flooding and river water pollution, as well as economic analysis of water quality improvement will be presented, followed by an open discussion with participants including decision makers and water sector professionals will be arranged.
- A booklet “Future Outlook of Urban Water Environment in Asian Cities: Summary for Decision Makers”, which summarizes research findings and policy recommendations developed by the WUI researchers will be provided to the participants.

17:00-17:10	<p>Opening</p> <p>Kensuke Fukushi (UNU-IAS / The University of Tokyo)</p> <ul style="list-style-type: none"> <li>- Setting the scene</li> <li>- Overview of the Water and Urban Initiative</li> </ul>
17:10-17:55	<p>Presentations:</p> <p>Science-based outlook and solutions in achieving resilient and sustainable urban water management</p> <ul style="list-style-type: none"> <li>• <b>Urban flood risk and damage</b> Binaya Kumar Mishra and Mohamed Kefi (UNU-IAS)</li> <li>• <b>Urban water quality deterioration and health consequences</b> Pankaj Kumar and Yoshifumi Masago (UNU-IAS)</li> </ul> <p>Interactive Discussion</p> <p>Moderator: Julia Lopes Ferreira (UNU-IAS)</p> <ul style="list-style-type: none"> <li>• <i>Focus points</i> <ul style="list-style-type: none"> <li>- <i>Challenges for assessment of water urban environment</i></li> <li>- <i>Strategies to cope with climate change and rapid urbanization</i></li> <li>- <i>Contribution of science in policy decisions</i></li> </ul> </li> </ul>
17:55-18:00	<p>Concluding Remarks</p> <p>Kensuke Fukushi (UNU-IAS / The University of Tokyo)</p>

# Speakers



## **Prof. Kensuke Fukushi, The University of Tokyo / UNU-IAS**

Prof. Kensuke Fukushi is a professor at Integrated Research System for Sustainability Science (IR3S), The University of Tokyo. He also holds an appointment as a visiting professor at UNU-IAS. He received his PhD in Civil Engineering from the University of Utah. His academic interests are on environmental engineering, risk assessment, climate change effect, water resource, sustainability and climate change effect.



## **Dr. Yoshifumi Masago, UNU-IAS**

Dr. Yoshifumi Masago is a research fellow at UNU-IAS. With his background in water quality analysis, quantitative microbial risk assessment, and environmental and sanitary engineering, his research has mainly focused on investigating quality of various types of water, and its effect on human health. He is currently investigating the future of urban water environments in developing countries, especially health-related consequences of water pollution and urban flooding.



## **Dr. Binaya Kumar Mishra, UNU-IAS**

Dr. Mishra, a research fellow, is engaged in research and teaching at UNU-IAS since 2010. His research and teaching interests include integrated water resources management, climate and ecosystem change, and GIS applications. Prior to joining UNU-IAS, Dr. Mishra worked as Irrigation Engineer at the Ministry of Irrigation; a Lecturer at Kathmandu Engineering College, Tribhuvan University; and Civil Engineer at Everest Engineering Consultancy, Kathmandu, Nepal.



## **Dr. Mohamed Kefi, UNU-IAS**

Dr. Mohamed Kefi is from Tunisia. He joined UNU-IAS as a JSPS-UNU postdoctoral fellow in September 2016. He obtained his Ph.D. from University of Tsukuba, Japan, in 2011. Prior to joining UNU-IAS, Mohamed Kefi worked as an assistant professor at the Water Research and Technologies Centre (CERTe) of Ecopark, Borj Cedria, Tunisia. His research interests focus on water resource management, natural disaster, ecological economics, GIS and remote sensing applications.



## **Dr. Pankaj Kumar, UNU-IAS**

Since April 2016, Dr. Kumar is working as a postdoctoral fellow at UNU-IAS. His current work aims to create evidence-based policy tools for sustainable water management in urban areas particularly in developing countries in South and South-East Asia. In parallel, he had worked as a chapter scientist for the Fifth Assessment Report (AR5) of the Intergovernmental Panel on Climate Change (IPCC). His main research and teaching interest area includes transdisciplinary research focusing on effect of global changes on water resources, and water quality and hydrological modeling.

# Moderator



## **Ms. Julia Lopes Ferreira, UNU-IAS**

Julia Lopes is currently a student at both UNU-IAS, Japan, and at Universidade de Brasília, Brazil. She holds a BSc in Chemical Engineering from Universidade Federal de Minas Gerais, Brazil, and a Masters in Business Administration from the University of Birmingham, UK. Her research is focused on climate change adaptation and ecosystems-based adaptation.

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